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Attorney Docket No.: DA-005-US-02

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Bing Wang et al.	Art Unit:	1733
Serial No.:	10/798,590	Examiner:	Rossi
Filed:	March 11, 2004	Confirmation No.:	6364
Title:	LOW-TEMPERATURE PRESS PROCESS FOR MAKING INSULATING GLASS ASSEMBLIES		

**MAIL STOP AF**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION OF BING WANG, JOHN GREENZWEIG AND MARK  
HACKBARTH**

We, Bing Wang, John Greenzweig and Mark Hackbarth, state and declare as follows:

1) We are inventors listed on the above-captioned application.

2) Prior to October 21, 2002, Bing Wang prepared a number of compositions for use in manufacturing insulating glass units using a cold press process. Bing Wang refers to these compositions as cold press sealants. A redacted print out of an electronic copy of one of Bing Wang's monthly reports reflecting the completion of a pilot batch of a moisture curable, cold press sealant is attached hereto at Tab 1. The moisture curable, cold press sealant was assigned H.B. Fuller product identification number HL-5500 and included a silane-functional amorphous poly- $\alpha$ -olefin, butyl rubber, polyisobutylene and a tackifying agent.

3) Prior to October 21, 2002, Bing Wang sent HL-5500 cold press sealant to an insulating glass unit (IGU) manufacturer. The IGU manufacturer prepared a number of insulating glass units using the HL-5500 cold press sealant. It is our understanding that the IGU manufacturer applied HL-5500 cold press sealant to a spacer and bonded two glass panes to the spacer through the sealant with pressure at room temperature (i.e., from about 20°C to about 25°C). The IGU manufacturer also evaluated the performance of the HL-5500 cold press sealant in the units. A redacted print out of an electronic copy

**CERTIFICATE OF TRANSMISSION**

I hereby certify under 37 CFR §1.8(a) that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office. Fax. No. (571)-273-8300 on September 27, 2005.

Signature

Brian L. Jarrells

Typed or Printed Name of Person Signing Certificate

of two of Bing Wang's monthly reports reflecting the fact that the IGU manufacturer evaluated the performance of the HL-5500 sealant in the insulating glass units are attached at Tabs 1 and 2.

4) Prior to October 21, 2002, Bing Wang received the insulating glass units from the IGU manufacturer. A redacted print out of an electronic copy of one of Bing Wang's monthly reports reflecting the fact that Bing Wang received insulating glass units from the IGU manufacturer is attached at Tab 2.

5) As demonstrated by the above, prior to October 21, 2002, Bing Wang was in possession of an insulating glass unit that had been made by applying a moisture curable sealant composition to a surface of a spacer, contacting the sealant composition with a glass pane and applying pressure on the assembly at an ambient temperature of from about 20°C to about 25°C to bond the glass pane to the spacer through the sealant composition. Prior to October 21, 2002, Bing Wang and John Greenzweig bonded glass to substrates at temperatures at least as low as about 15°C and also recognized that the HL-5500 sealant used in the manufacture of the insulating glass unit would allow for a glass pane to be bonded to the spacer under pressure at a temperature of from about 15°C to about 60°C.

Each of us individually declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under section 1001 Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent on which this statement is directed.

Further I declare not.

Date: Aug - 9, 2006

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Bing Wang

Bing Wang

John Greenzweig

Mark Hackbarth

## **TAB 1**

$\alpha\beta$   $\alpha\beta\chi\delta$   
Interoffice Correspondence  
Confidential Information

TO: John Greenzweig

CC: [REDACTED]

FROM: Bing Wang

Monthly Report - [MONTH AND YEAR REDACTED]

## DATE:

I. Cold Press Primary Sealant (P00003012):

[DATE REDACTED]

[Activity summary of this month]: Two pilot batches were completed on [REDACTED] and [REDACTED]

QC tests include RT cold-press lap shear (12 PSI), Glass bond pass (0% AFG for both RT and water soak), and Hot melt viscosity (200,000 CPS at 1.0 HZ 300°C) were in spec. [REDACTED] have evaluated the HL5500 [REDACTED]

[NAME OF IGL MANUFACTURER REDACTED]

## **TAB 2**

$\alpha\beta$   $\alpha\beta\chi\delta$   
Interoffice Correspondence  
Confidential Information

TO: John Greenzweig

CC: [Redacted]

FROM: Bing Wang

Monthly Report - [Month and year redacted]

DATE:

1. Cold Press Primary Sealant (P00003012):

[Name of IGU manufacturer redacted]

[Activity summary of this month]:

has evaluated the HL5500 [redacted]

The IG units made from HL5500

[redacted] will be evaluated by

H&B Fuller internal testing program, which is equal to CBA testing.

[Redacted]